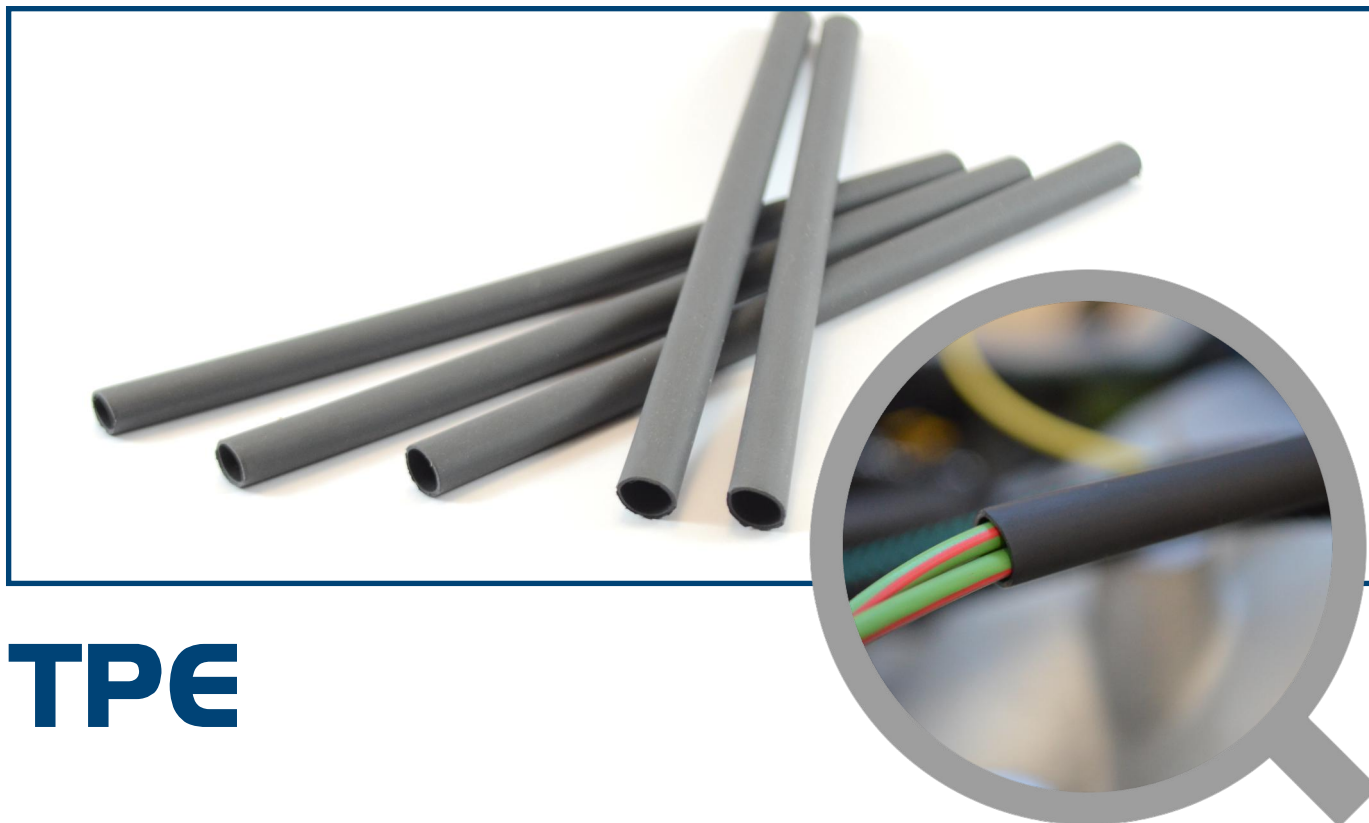
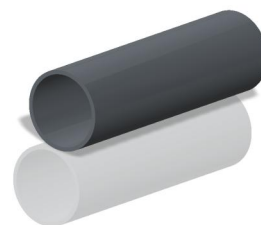


# Smooth Tubing



## TPE

The TPE smooth tubing is made of thermoplastic elastomer. It is used to protect from slight shocks, frictions and possible peak temperatures.

It is usually proposed in a non-slit version, unless otherwise requested. It can be delivered inflated so it keeps its round shape.

The TPE smooth tubing is available in many colors, sizes and plastic grades.

Other than standard sizes and colors upon request only.

The TPE smooth tubing can be flame retardant, depending on the chosen material grade.

It is a flexible product even at very low temperatures. This tubing does not take up any humidity and is an excellent electrical insulator.

## Material

The TPE smooth tubing is available in a low hardness vulcanized thermoplastic elastomer or in a flame retardant thermoplastic elastomer version.

The flame retardant TPE material is proposed in an **anti-rodent version**.

## Characteristics

**Colors:** black and orange. Other colors upon request.

Physical properties	Specification	Unit	Low hardness vulcanized TPE	Flame retardant TPE
Thermal properties				
Continuous temp. of use - min/max	-	°C (°F)	-40/125 (-40/257)	
Peak temperature	-	°C (°F)	150 (302)	
Mechanical properties				
Tensile strength at yield	ISO 37	MPa	-	6.5
Tensile strength at break	ISO 37	MPa	8.8	-
Elongation at break	ISO 37	%	490	705
Hardness	ISO 868	shore A	73	85
Other properties				
Density	ISO 1183	g/cm³	0.97	1.24
Flammability	FMVSS 302 D45 1333 UL 94	mm/min - -	<100 - -	self-extinguishing type B V0 (1.2 mm)
Chemical resistance	Resists the majority of chemicals and automotive fluids (oils, coolant, battery liquid, brake fluid, fuels, windshield washer...)			

## Dimensions

Standard sizes are from 2 mm to 40 mm, internal diameter.

Standard thickness dimensions are from 0.75 mm to 2 mm. Other dimensions upon request only.

## Approvals

Direct: Renault-Nissan.

## Packaging

The TPE smooth tubing is delivered in rolls or in cut lengths from 15 to 2,000 mm (other lengths upon request only).

Data and photos for information only. Delfingen makes no warranties as to the accuracy or completeness of this information. Delfingen reserves the right to make changes in materials or processing without notification.

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